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- (71) Applicant (for all designated States except US): PFIZER PRODUCTS INC. [US/US]; Eastern Point Road, Groton, CT 06340 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BURNS, Michael, Paul [US/US]; Pfizer Global Research & Development, Eastern Point Road, Groton, CT 06340 (US). WEAVER, Justin, Kaine [US/US]; Pfizer Global Research and Development, 301 Henrietta Street, Kalamazoo, MI 49001 (US). WONG, John, Wing [CA/US]; Pfizer Global Research and Development, Eastern Point Road, Groton, CT 06340 (US).

- (74) Agents: FULLER, Grover, F., Jr. et al.; c/o LAWRENCE, Jackie, Pfizer Inc., MS8260-1615, Eastern Point Road, Groton, CT 06340 (US).
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(54) Title: STEREOSELECTIVE BIOCONVERSION OF ALIPHATIC DINITRILES INTO CYANO CARBOXYLIC ACIDS

(57) Abstract: The present invention is directed to a regio-and stereoselective bioconversion of selected aliphatic dinitriles into corresponding cyanocarboxylic acids. More particularly, the present invention provides methods for the conversion of 2-isobutyl-succinonitrile into (S)-3 cyano-5-methylhexanoic .acid, which is a useful intermediate in the synthesis of (S)-3(aminomethyl)-5-methylhexanoic acid (pregabalin). Pregabalin can be used for treating certain cerebral diseases, for example, in the treatment and prevention of seizure disorders, pain, and psychotic disorders.